

EiRegistration for Transactive Energy

Ed Cazalet, July 23, 2011

1. Party registers with 1 to * Counter Parties or with 1 to * Party Registries.
2. Party can also registers 1 to * Accounts with each Counter Party or Party Registry
3. Discovery of Counter Parties and Parity Registries is a search process that is out of scope.
4. Party and one or more accounts also associates with one or more Energy Service Interfaces as owner.
5. Each ESI has location attributes as described in emix. Locations are called Nodes.
6. An ESI may be a controller for devices such as air conditioners, generators, or PEVs.
7. A meter may be associated with and ESI.
8. A Party may transact at other ESI nodes that may not have meters or have meters that the Party does not own.
9. Devices such as generators are also called Generating Resources. Generating Devices on the Distribution Grid are call Distributed Energy Resources.
10. Devices may consume or product electric energy while producing revenues for generating devices and services at a cost for consuming devices.
11. The ESI for a device may control the device based on preferences of the owner.
12. A Party or an ESI acting for a party may agree to forward transactions for energy.
13. A Party and Account and ESI may enroll in Agreements offered by Counter Parties. A retail tariffs be one such agreement. A Participation Agreement in an ISO or RTO is another. And a Party already enrolled in a retail tariff with a utility counter Party may also enroll in a Demand Response Program.
14. An Account for a Party may take the role of buyer or seller for energy transactions under enabling agreement with counter parties.
15. An Account for a Party enrolled in an ISO or RTO may submit tenders to their markets. The tenders may be for either energy and ancillary service products or for resource capability. The ISO or RTO accept the tenders at market clearing prices or may dispatch the resource and pay market clearing prices for products produced.

